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मानक

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IS 3760 (1966): Probe, Aural, Jobson Horne's Pattern [MHD
4: Ear, Nose and Throat Surgery Instruments]



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SPECIFICATION FOR
PROBE, AURAL, JOBSON HORNE'S
PATTERN

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BUREAU OF INDIAN STANDARDS
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NEW DELHI 110002

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Indian Standard

SPECIFICATION FOR PROBE, AURAL, JOBSON HORNE'S PATTERN

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IS : 5760 - 1966

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Indian Standard

SPECIFICATION FOR PROBE, AURAL, JOBSON HORNE'S PATTERN

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 25 October 1966, after the draft finalized by the Surgical Instruments Sectional Committee had been approved by the Consumer Products Division Council.

0.2 The formulation of Indian Standards on surgical instruments has been taken up on the recommendations of the Advisory Committee for Development of Surgical Instruments, Medical Equipment and Hospital Appliances of the Ministry of Industry, Government of India.

0.3 This Indian Standard is one of a series on surgical instruments.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard covers the requirements of aural probe, Jobson Horne's pattern used in ENT work.

2. MATERIAL

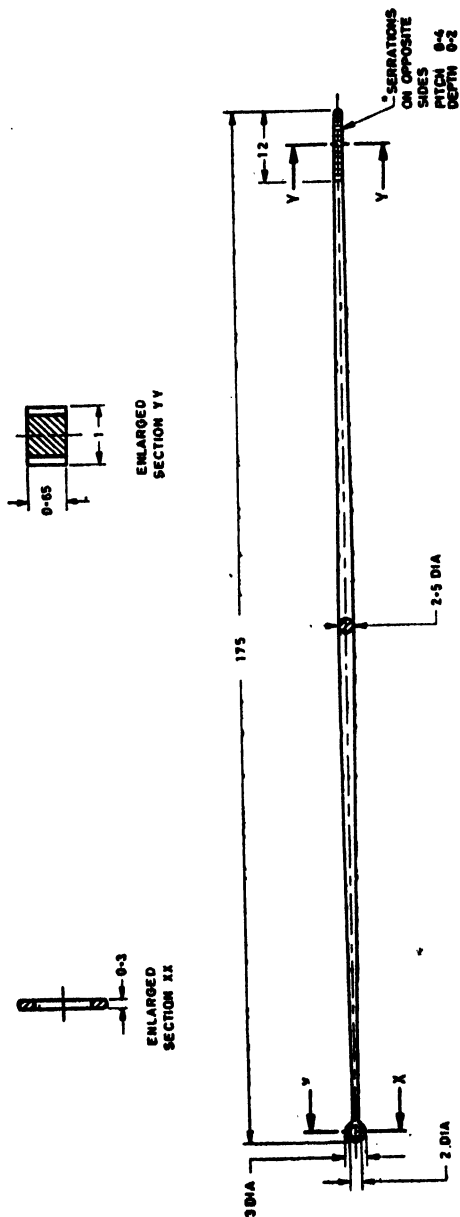
2.1 The probe shall be made from stainless steel conforming to designation 30Cr13 of Schedule V of IS : 1570-1961†.

3. SHAPE AND DIMENSIONS

3.1 The shape and dimensions shall generally conform to Fig. 1.

*Rules for rounding off numerical values (*revised*).

†Schedules for wrought steels for general engineering purposes.



All dimensions in millimetres.

*See IS : 3642-1966 General requirements for surgical instruments.

Fig. 1 PROBE, AURAL, JOBSON HORNE'S PATTERN

4. MANUFACTURE, WORKMANSHIP AND FINISH

4.1 The probe shall be forged in one piece to give the required shape. The loop of the probe shall be round and free from sharp edges. The other end shall be made flat and with serrations and shall be capable of holding cotton wool. The instrument shall be well balanced on its centre line. It shall be passivated and polished bright, free from pits, spots, burrs and other surface defects.

5. HEAT TREATMENT

5.1 The probe shall be hardened and tempered to a hardness of 430 to 90 HV when tested at the tips.

6. MARKING

6.1 Each probe shall be legibly and indelibly marked with the manufacturer's name, initials or trade-mark and country of manufacture.

6.1.1 The probe may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act, and the Rules and Regulations made thereunder. Presence of this mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard, under a well-defined system of inspection, testing and quality control during production. This system, which is devised and supervised by ISI and operated by the producer, has the further safeguard that the products as actually marketed are continuously checked by ISI for conformity to the standard. Details of conditions, under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

7. TESTS

7.1 **Flexibility Test** — The probe shall be fixed in the vice so that 75 mm of length protrudes outside the vice. By the application of a force at the free end, the probe shall be deflected by 10 mm as measured at the end in the horizontal plane. On completion of the test the probe shall show no permanent set or damage. The whole test shall be repeated at the other end.

7.2 The probe shall be clamped in the vice in such a manner that the long axis of the probe is vertical and the loop is downward. A load of 200 g shall be suspended through a chord in the loop. The loop shall not show any sign of damage or permanent set after the completion of the test.

7.3 **Corrosion Resistance Test** — The probe shall be tested for corrosion resistance as prescribed in 7.3.1.

7.3.1 Copper Sulphate Test — The sample shall be scrubbed with soap and warm water, rinsed in hot water, followed by a dip in ethyl alcohol (95 percent) and dried. The sample shall be completely immersed in copper sulphate solution at room temperature for 6 minutes and shall then be washed off with fresh water or with wet cotton wool. The copper sulphate solution shall be made up as follows:

Copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)	4.0 g
Sulphuric acid (H_2SO_4) (sp gr 1.84)	10.0 g
Water (H_2O)	90.0 ml

There shall be no red stains or spots on the sample after the test, but the polished surface becoming dull may be permitted.

8. PACKING

8.1 Each probe shall be wrapped in wax paper and six such pieces shall be packed in polyethylene bag or cardboard box.

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AMENDMENT NO. 1 JANUARY 1979
TO
IS : 3760-1966 SPECIFICATION FOR
PROBE, AURAL, JOBSON HORNE'S PATTERN

Alteration

(*Pages 5 and 6, clauses 7.3 and 7.3.1*) — Substitute the following for the existing clauses:

'7.3 Corrosion Resistance — The instrument shall satisfy the boiling and autoclaving test as specified in IS : 7531-1975*.'

Addendum

(*Page 5, foot-note*) — Add the following new foot-note at the bottom of the page:

'*Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments.'